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| INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (use as page sheets as necessary) | | |
| 01.6% | Application Number | 09/589,288 |
| | Filing Date | June 8, 2000 |
| ANG 2 0 2001 W | First Named Inventor | YU et al., |
| MAR V A STORY ST | Group Art Unit | 1646 |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Examiner Name | Prasad, S. |
| Sheet of 4 | Attorney Docket Number | PF343P3C5 |

| | | MADELIN | | U.S. PATENT DOCUME | NTS | |
|----------------------|---------------|------------|----------------------------------|------------------------|--|---|
| Examiner Initials | Cite No. 1 | | Kind Code ² Name of I | | Date of Publication of Cited Document MM-DD-YY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| sul | A1 | 08/984,396 | | SmithKline Beecham | NA | Priority Document of EP 869180 |
| | A2 | 60/033,601 | | Schering | NA | Priority Document of WO 98/27114 |
| | A3 | 60/041,797 | | SmithKline Beecham | NA: | Priority Document of EP 869180 |
| | A4 | 60/048,776 | | Regeneron | NA | Priority Document of 98/55621 |
| | A5 | 60/058,786 | | Biogen | NA | Priority Document of 99/12964 |
| | A6 | 60/066,386 | | Regeneron | NA | Priority Document of 98/55621 |
| <u> </u> | A7 | 60/066,577 | | Eli Lilly | NA | Priority Document of EP 921194 |
| | A8 | 60/068,959 | | Chiron | NA | Priority Document of WO 99/33980 |
| | A9 | 60/096,173 | | Eli Lilly | NA | Priority Document of EP 921194 |
| | A10 | 60/106,976 | | U.S. Government - DHHS | NA | Priority Document of WO 00/26244 |
| | A11 | 60/117,169 | | Biogen | NA | Priority Document of WO 00/43032 |
| | A12 | 60/143,228 | | Biogen | NA | Priority Document of WO 00/43032 |

| <u> </u> | | | | | | FOREIGN PATENT DOCU | MENTS | | |
|----------------------|-----------------|---------------|--------|---------------------------|-----------------------------------|--------------------------------|--|--|----------------|
| Examiner Initials | | Cite No. 1 | Office | Foreign Patent D Number4 | ocument Kind Code (if known | | Date of Publication of Cited Document MM-DD-YY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | Τ ⁶ |
| \triangleright | V | A13 | EP | 869180 | A1 | SmithKline Beecham | 07-10-1998 | | |
| Ш | | A14 | EΡ | 921194 | A2 | Eli Lilly | 06-09-1999 | | |
| | A15 EP 98302526 | | | SmithKline Beecham | | Priority Document of EP 869180 | | | |
| | 1 | | EP | 98309632 | | Eli Lilly | | Priority Document of EP 921194 | |
| | A | | WO | 01/40466 | A2 | Genentech | 06-07-2001 | Pages 1-135 and Figures 23 and 24 | |
| | | A18 | WO | 00/26244 | A2 | U.S. Government - DHHS | 05-11-2000 | | |
| L | | A19 | WO | 00/39295 | A1 | Glaxo | 07-06-2000 | | |
| <u></u> | | A20 | WO | 00/40716 | A2 | Zymogentics | 07-13-2000 | | |
| | | A21 | WO | 00/43032 | A2 | Biogen | 07-27-2000 | | |
| | | A22 | WO | 00/47740 | A2 | Amgen, Inc. | 08-17-2000 | | |
| | | A23 | WO | 00/45836 | A1 | Res. Dev. Foundation | 08-10-2000 | | |
| | | A24 | WO | 00/60079 | A2 | Chiron Corporation | 10-12-2000 | | |
| | y | A25 | WO | 00/67034 | A1 | Immunex Corporation | 11-09-2000 | | |

10/31/01 Sarada Prasad

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| Substitute for form 1449A/PTO | Complete If Known | | |
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| 0/ | Group Art Unit | 1646 | |
| The state of | Examiner Name | Prasad, S. | |
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| | | | | | FOREIGN PATENT DO | OCUMENTS | | |
|----------------------|-----|---------------------|-----------------------------|-----------------------------------|--|--|--|----------------|
| Examiner Initials | | Office ³ | Foreign Patent D Number4 | Kind Code ⁵ (if known) | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| SUS | A26 | WO (| 00/68378 | A1 | National Jewish Medical and Research Center | 11-16-2000 | | |
| | A27 | 27 WO 00/77256 A1 | | A1 | Human Genome Sciences | 12-21-2000 | | |
| <u> </u> | A28 | WO 9 | 7/33902 | A1 | Human Genome Sciences | 09-18-1997 | | |
| | A29 | WO S | 98/27114 | A2 | Schering | 06-25-1998 | | |
| | A30 | WO 9 | 98/55620 | A1 | Regeneron | 12-10-1998 | | |
| | A31 | WO S | 98/55621 | A1 | Regeneron | 12-10-1998 | | |
| 1 | A32 | WO S | 99/11791 | A1 | Univ. of Washington | 03-11-1999 | | |
| | A33 | WO 9 | 99/12964 | A2 | Biogen | 03-18-1999 | | |
| 4 | A34 | WO S | 99/33980 | A2 | Chiron | 07-08-1999 | | |

| , | OTHER REFERENCES - NON PATENT LITERATURE DOCUMENTS | | | | | | | | |
|----------------------|--|---|----------------|--|--|--|--|--|--|
| Examiner Initials | Cite No. 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ⁶ | | | | | | |
| Sen | A35 | FARRAH ET AL., GenBank Accession Number AF186114, 01-13-2000. | | | | | | | |
| 7 | A36 | FERGUSON ET AL., Human Molecular Genetics 6:1589-1594 | | | | | | | |
| | A37 | FUJIWARA ET AL, GenBank Accession Number D79690, 02-09-1996. | | | | | | | |
| | A38 | HILLIER ET AL., GenBank Accession Number AA166695, 11-09-1997. | | | | | | | |
| | A39 | HILLIER ET AL., GenBank Accession Number AA682496, 12-19-1997. | | | | | | | |
| | A40 | HILLIER ET AL., GenBank Accession Number R16882, 04-14—1995. | | | | | | | |
| | A41 | HILLIER ET AL., GenBank Accession Number R16934, 04-14-1995. | | | | | | | |
| | A42 | HILLIER ET AL., GenBank Accession Number T87299, 03-17-1995. | | | | | | | |
| | A43 | MARRA ET AL., GenBank Accession Number AA422749, 10-16-1997. | | | | | | | |
| | A44 | MARRA ET AL., GenBank Accession Number Al182472, 10-08-1998. | | | | | | | |
| | A45 | MYERS., GenBank Accession Number G30081, 10-05-1996. | | | | | | | |
| | A46 | NCI-CGAP., GenBank Accession Number AA906714, 06-09-1998. | | | | | | | |
| | A47 | ZHANG ET AL., GenBank Accession Number AF134715, 03-28-2000. | | | | | | | |

Sarada Prasad 10/31/9

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (use as manps Rets as necessary) | | | |
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| Mile E | Group Art Unit | 1646 | |
| \2 | Examiner Name | Prasad, S. | |
| Sheet 4 | Attorney Docket Number | PF343P3C5 | |

| | | OTHER REFERENCES - NON PATENT LITERATURE DOCUMENTS | | | |
|----------------------|--|---|--|--|--|
| Examiner Initials | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | |
| SUP | A48 | BAUMGARTH, Nicole, Secreted lgM versus BlyS in germinal center formation, Nature Immunology, (2000) 1:179. | | | |
| | A49 | CYSTER, JASON G., Marginal zone B cells may steal the limelight as the roles of Pyk-2 and BlyS begin to be elucidated. Pyk-2 deficiency leads to their loss whereas signaling via the BlyS receptor may augment their function, Nature Immunology, (2000) 1:9-10. | | | |
| | A50 | DO ET AL., Attenuation of Apoptosis Underlies B Lymphocyte Stimulator Enhancement of Humoral Immune Response, J. Exp. Med., (2000) 192:953-964. | | | |
| | A51 | GROSS ET AL.; TACI and BCMA are receptors for a TNF homologue implicated in B-cell autoimmune disease, Nature, (2000) 404:995-999. | | | |
| | A52 HATZOGLOU ET AL., TNF Receptor Family Member BCMA (B Cell Maturation) Associates Receptor-Associated Factor (TRAF) 1, TRAF2, TRAF3 and Activates NF-kB, Elk-1, c-Jun N-Kinase, and p38 Mitogen-Activated Protein Kinase, The Journal of Immunology, (2000) 165:1 | | | | |
| | A53 | HU ET AL., Characterization of TNFRSF19, a novel member of the tumor necrosis factor receptor superfamily, Genomics, 62:1023-107 (1999). | | | |
| | A54 | KANAKARAJ ET AL., BlyS Binds to B Cells With High Affinity and Induces Activation of the Transcription Factors NF-κ and Elf-1, Cytokine (2001) 13:25-31. | | | |
| | A55 | KHARE ET AL., Severe B Cell Hyperplasia and autoimmune disease in TALL-1 transgenic mice, PNAS, (2000) 97:3370-3375. | | | |
| | A56 | LAABI ET AL., Lymphocyte SurvivalIgnorance is BlyS, Science Magazine, (2001) 289:883. | | | |
| | | MACKAY ET AL., Mice Transgenic for BAFF Develop Lymphocytic Disorders Along with Autoimmune Manifestations, J. Exp. Med., (1999) 190:1697-1710. | | | |
| | | MARSTERS, ET AL., Interaction of the TNF homologues BlyS and APRIL with the TNF receptor homologues BCMA and TACI, Current Biology, (2000) 10:785-788. | | | |
| , | A59 | MOORE ET AL., BlyS: Member of the Tumor Necrosis Factor Family and B Lymphocyte Stimulator, Science, (1999) 285:260-263. | | | |
| | A60 | NARDELLI ET AL., Synthesis and release of B-lymphocyte stimulator from myeloid cells, Immunobiology, (2001) 97:198-204. | | | |
| | A61 PARRY ET AL., Pharmacokinetics and Immunological Effects of Exogenously administered Recombining Human B Lymphocyte Stimulator (BlyS) in Mice, The Journal of Pharmacology and Experimental There (2001) 296:396-404. | | | | |
| | A62 | SCHNEIDER ET AL., BAFF, a Novel Ligand of the Tumor Necrosis Factor Family, Stimulates B Cell Growth, J. Exp. Med., (1999) 189:1747-1756. | | | |
| V | A63 | SHU ET AL., TALL-1 is a novel member of the TNF Family that is Down-regulated by Mitogens, J. Leukoc. Biol., 65:680-683 (1999). | | | |

Sarada Prasad 10/21/01

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| | OTHER REFERENCES - NON PATENT LITERATURE DOCUMENTS | | | | | | | | |
|----------------------|--|---|--|--|--|--|--|--|--|
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| Sel | A64 | THOMPSON ET AL., BAFF Binds to the Tumor Necrosis Factor Receptor-like Molecule B Cell Maturation Antigen and Is Important for Maintaining the Peripheral B Cell Population, J. Exp. Med., (2000) 192:129-135. | | | | | | | |
| : (| | WU ET AL., Tumor Necrosis Factor (TNF) Receptor Superfamily Member TACI Is a High Affinity Receiptor for TNF Family Members APRIL and BlyS, The Journal of Biological Chemistry (2000) 275:34578-34585. | | | | | | | |
| | | XIA ET AL., TACI Is a TRAF-interacting Receptor for TALL-1, a Tumor Necrosis Factor Family Member Involved in B Cell Regulation, J. Exp. Med., (2000) 192:137-143. | | | | | | | |
| | A67 | YAN ET AL., Identification of a receptor for BlyS demonstrates a crucial role in humoral immunity, Nature Immunology, (2000) 1:37-41. | | | | | | | |
| | A68 | YU ET AL., APRIL and TALL-1 and receptors BCMA and TACI: system for regulating humoral immunity, (2000) 1:252-256. | | | | | | | |
| | | ZHANG ET AL., Cutting Edge: A Role for B Lymphocyte Stimulator in Systemic Lupus Erythematosus, The Journal of Immunology, (2001) 166:6-10. | | | | | | | |
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| | Examiner Savada | Prasad | Date Considered | 10/31/07 | |
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